

Office of Information Technology Policy

LOUISIANA SECURE INTRANET (LSI) and INTERNET PROTOCOL ADDRESSING

Purpose:

Act 772 mandated the Office of Telecommunications Management (OTM) to manage and oversee all telecommunications systems, including local and wide area networks (LAN, WAN) within the executive branch of state government. OTM has created/established the Louisiana Secure Intranet (LSI) for intra- interagency communications and internet access.

In assigning IP address space to end users, OTM takes guidance from assignment policies and procedures set forth in Request For Comments (RFC) repository maintained by the Internet Engineering Task Force (IETF) Secretariat. These guidelines were developed to meet the needs of the larger Internet community in conserving scarce IPv4 address space and allowing continued use of existing Internet routing technologies. In order to standardize the statewide IP addressing scheme and apply conservation of IP address space where appropriate OTM follows:

- VSLM (Variable Length Subnet Mask) RFC 2050
- Private / Reserved Addresses RFC 1918
- NAT (Network Address Translation) RFC 1631
- DHCP (Dynamic Host Configuration Protocol) RFC 2131.

RFC'S can be referenced at this site <http://www.ietf.org/rfc.html>

Policy:

Agencies participating in the LSI are required to comply with the internet protocol (IP) addressing scheme (<http://doa.louisiana.gov/otm/handbook/policy.htm>) established by OTM.

Scope:

This policy mandates that all state entities participating in the LSI, under the authority of the Office of Information Technology pursuant to the provisions of R.S. 39:15.1, et seq., shall participate in a scheme for IP addressing that will ensure internet access while using unique IP addresses within the LSI and the statewide DMZ.

Responsibilities:

OTM shall assign each agency a subnet appropriate to the agency size from the RFC 1918 10.0.0.0 IP address space to support agency users and network devices inside the LSI. The assigned address space shall be large enough to accommodate the agency's current and anticipated IP devices.

OTM shall assign each agency a public IP subnet appropriate to the agency size to support agency's public access servers located within the DMZ. The assigned address space shall be large enough to accommodate the agency's current and anticipated IP devices.

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OTM shall assign each agency a public IP subnet from its pool of statewide public IP addresses for private to public IP address mapping for network devices inside the LSI. Once an agency is moved to the inside of the LSI, all public IP addresses delegated to that agency by the Internic or American Registry of Internet Numbers (ARIN) shall become part of the pool of statewide public IP addresses to be used at OTM's discretion.

OTM shall provide Network Address Translation (NAT) and Public Address Translation (PAT) at the OTM-managed firewalls for mapping of private to public IP addresses. NAT will be implemented using a public to private address ratio appropriate to the needs of each agency, with the goal being to minimize the use of PAT.

Agencies are required to coordinate with OTM and develop a transition plan that addresses the new IP scheme assigned by OTM.

Effective Date:

November 4, 2002

Reissued May 1, 2003 (revised scope statement)

Reissued June 6, 2008 (revised policy statement)